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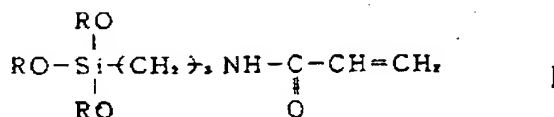
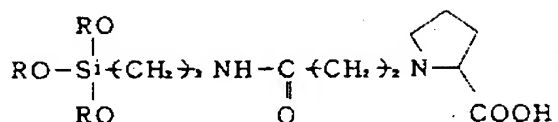
APPLICATION DATE : 29-08-85
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APPLICANT : AGENCY OF IND SCIENCE & TECHNOL;

INVENTOR : ICHIMURA KUNIHIRO;

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TITLE : NOVEL OPTICALLY ACTIVE SILANE-COUPLING AGENT AND PRODUCTION THEREOF



ABSTRACT : NEW MATERIAL: The compound of formula I (R is CH₃ or C₂H₅) having optically active proline residue.

EXAMPLE: L-N-{2-[N'-(3-triethoxysilylpropyl)carbamoyl]ethyl} proline.

USE: Surface treating agent for silica gel, etc. Copper is supported on the treated silica gel particle by coordination bond and is used as a filler for the column for high-performance liquid chromatography to separate an optical isomer of e.g. amino acid. The separation coefficient is especially high for amino acids having hydrophilic side chain.

PREPARATION: An optically active proline (e.g. L-proline) is made to react with the compound of formula II (e.g. triethoxysilylpropylacrylamide) in a non-aqueous solvent (e.g. methanol).